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bolometer thermistor spinel (iron OR ferrite OR

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Use of **spinel** ferrites as sensitive material for bolometric infrared detector devices

P Tailhades, L Presmanes, C Bonningue, ... - US Patent App. 10/ ..., 2004 - Google Patents

- ... The article by A. Doctor, S. Baliga, M. Rost entitled "Sputtered films thermistor IR detector", Proc. ...
- 5 854 587 describes the use of pervoskite type manganites as sensitive material for **bolometers**. ... with a sensitive element in the form of a thin layer of a spinel ferrite structure material ...

All 6 versions

[CITATION] Thick-film thermistors and RTDs

H Arima - Thick Film Sensors, 1994 Cited by 5 - Related articles

... for Strontium lead Titanate Based Composite **Thermistor** Materials Via Chemical ...

WDGYQ Jun, GZL Longtu - PIEZOELECTRICS & 1998 - en.cnki.com.cn

... 1, Yang Yasheng (Chongging Optoelectronics Research Institute, Chongging 400060); Bolometer Infrared Focal Plane Arrays[J]; SEMICONDUCTOR TECHNOLOGY ... Beijing 100039, China); Hydrothermal synthesis of Co-Mn-Ni-Mg-Fe-O nano-spinel NTC thermistor material[J ... Cached

Ceramic Sensors

..., S Subramanyam, A Amin, HL Tuller - Ceramic materials ..., 2004 - books.google.com ... vanadium oxide (VOv) or amorphous silicon («-Si), form the thermal detector in microbolometer arrays (see ... can be adjusted by varying the composition in the Mn-Ni-Fe spinel system. ... Potential sources of instability include: Mn Figure 9 NTC thermistor resistivity contours at 25 C ... Related articles - 8L Direct

Infrared optical properties of MnCoNiO **spinel** films sputter deposited in an oxygen ...

R Dannenberg, S Baliga, RJ Gambino, AH ... - Journal of Applied ..., 1999 - link.aip.org

- ... Though the traditional approach to make **thermistor** sensors and infrared **bolometers** has been
- to ... historical composition used in the fabrication of the sintered ceramic flakes for infrared

bolometers. ... LO and TO components are similar to those reported for cobaltite **spinels** of Zn ...

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T Yadav, C Kostelecky - US Patent App. 10/443,195, 2003 - Google Patents ... 9 depicts a typical **thermistor bolometer** detector circuit. ... I/K)-(dR/dT) [0064] where, R is the resistance of the **thermistor** at temperature T. For **thermistors** a is ... prepare devices containing oxide ceramic compositions based on one or more of the following elements: Ti, Mn, Fe, Ni, Zn ... All 3 versions

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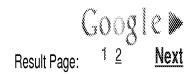
A Alessandrello, C Brofferio, DV Camin, O ... - Nuclear Physics B (..., 1999 - Elsevier ... Wo2641, Mg#5557) ilmenite violarite, mackinawite orthopyroxene (En6368) micropegmatite saussurite, **spinel**, olivine chlorite ... in the next implantation run we should improve the performances of our Si **bolometers** and more systematic tests with Ge **thermistors** are planned ...

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HW TROLANDER, JH VEGHTE - Advances in Electronics and ..., 1971 - books.google.com ... of resistance on the order of 4%/Cin the region 35-40 C. **Fe**, Co, and ... distribution of Ni and Mn ions on a particular lattice site of the **spinel**, as suggested ... further devel- opment of the mechanisms for establishing and maintaining electrical contact with the **thermistor** material will be ...

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